

**Amendments to the Drawings:**

Formal attached drawing sheets 1/12 to 12/12 are being submitted as replacement drawings.

The attached drawing sheet 2/12 includes changes to Figures 3 and 4. This sheet, which includes Figures 3 and 4, replaces the original sheet including Figures 3 and 4. In Figure 3, elements have been labelled with reference numerals “20”, “22”, “24”, “26”, “28”, “30”, “32”, “34”, and “36”. Figure 4 has been amended to label the mobile handset with reference numeral “400”.

The attached drawing sheets 8/12 to 12/12 include changes to Figures 21A to 21C, 22 to 26, 27A, 27B, 28, 29A, and 29B. These sheets which include Figures 20A to 20C, 21 to 25, 26A, 26B, 27, 28A, and 28B, replace the original sheets including Figures 21A to 21C, 22 to 26, 27A, 27B, 28, 29A, and 29B. Figures 21A to 21C, 22 to 26, 27A, 27B, 28, 29A, and 29B have been renumbered as Figures 20A to 20C, 21 to 25, 26A, 26B, 27, 28A, and 28B, respectively.

Attachment: Replacement Sheets  
Annotated Sheets Showing Changes

## **REMARKS/ARGUMENTS**

### **Drawings**

In Paragraph 1 of the Detailed Action, the Examiner has raised objections against the drawings under 37 CFR § 1.84(p)(5).

Elements in Figure 3 have been labelled with reference numerals “20”, “22”, “24”, “26”, “28”, “30”, “32”, “34”, and “36”, and the mobile handset of Figure 4 has been labelled with reference numeral “400”. The specification has also been amended on page 12, line 26 to replace the reference numeral “40” with “400”. The expression “mobile handset” on page 13, line 1 has been replaced with “mobile handset 400”.

The Examiner is respectfully requested to withdraw the objection to the drawings under 37 CFR § 1.84(p)(5).

Furthermore, there is no Figure 20 and, as such, Figures 21A to 21C, 22 to 26, 27A, 27B, 28, 29A, and 29B have been renumbered. This required renumbering of the figures on page 9, lines 25, 28, 31, 34, and 35; page 10, lines 1, 4, 6, 9, 11, 13, 16, 18, and 21; page 15, lines 34 and 35; page 16, lines 1, 6, 7, 14 to 17, 20, 25, 28, 33, and 35; and page 17, lines 5, 7, 16, and 18.

Regarding the Examiner’s request for replacement drawings in Paragraph 2 of the Detailed Action, replacement drawings are attached.

### **Specification**

In Paragraph 3 of the Detailed Action, the Examiner has objected to the Abstract of the disclosure. The expression “layout comprises are” has been replaced with “layout are”. Applicant submits that the Abstract is clear and makes sense.

The Examiner is respectfully requested to withdraw the objection to the Abstract.

In Paragraph 4 of the Detailed Action, the Examiner is requiring that the first sentence on

page 1 of the specification identify United States Patent No. 6,710,677 in connection with Application Serial No. 10/074310. The specification has been amended on page 1, line 6 to add the expressions, which issued as United States Patent No. 6,710,677 and which is”.

The Examiner is also suggesting that the term “filters” on page 13, lines 18 to 21 be replaced with “resonators”. This term has been replaced with “resonators” on page 13, lines 18 to 21.

### **Claim Amendments**

Claims 1, 2, 4 to 6, and 8 to 19 have been cancelled.

Claims 20 to 22, 24, 27, and 29 have been re-written in independent form.

Claims 3, 7, and 24 have been amended to depend on claims 20, 21, and 23, respectively.

Claims 26 and 29 have been amended to depend on claim 21.

Claims 25, 28, and 31 have been amended to depend on claim 20. Amended claim 28 is identical in scope to originally filed claim 28. Claims 25 and 31 are identical in scope to original claims 25 and 31, respectively, except that amended claims 25 and 31 specifically recite a “radio frequency band reject filter”.

New claim 34 has also been added and depends on claim 22.

Support for new claims 34 can be found for example on page 11, lines 15 to 21.

Other formal amendments to the claims have been made, and will be discussed below. Applicant submits that all objections and rejections raised by the Examiner are overcome by amendment to the claims. Nonetheless, each objection and rejection will be addressed below.

### **Claim Objections**

In Paragraph 5 of the Detailed Action, the Examiner has raised formal objections against claims 2, 4 to 8, 10, 12, 16, 20 to 26, 28, 29, 31, and 32.

Claims 2, 4 to 6, 8, 10, 12, 16, and 32 have been cancelled thereby rendering the Examiner's formal objections against these claims moot.

Claim 7 has been amended to replace the expression "radio frequency filter" with "radio frequency band reject filter".

Claims 20 to 22 have been rewritten in independent form, and the term "filter" has been replaced with "frequency band reject filter".

The expression "an adjacent SAW resonators" previously recited in claims 21 and 23 has been replaced with "an adjacent SAW resonator".

Furthermore, in claims 21 and 23 the expression "a plurality of SAW resonators" has been replaced with "a plurality of series connected SAW resonators".

Claim 23 has been rewritten in independent form incorporating the features of original base claim 8, which was directed to a base station power amplifier. Applicant submits that claim 23 is correctly directed to a base station power amplifier.

Claim 24 has been amended to depend on claim 23 and to replace the expression "power amplifier" with "base station power amplifier".

Claim 25 has been amended to depend on claim 20, and is directed to a base station power amplifier. Applicant notes that original claim 25 depended on claim 8, which was also directed to a base station amplifier.

Regarding claim 26, the Examiner is suggesting that claim 26 be amended to replace the expression "shunt" with "series", on the basis that claim 23 recites "the series acoustic resonator includes a plurality of series connected SAW resonators formed on a common substrate, each SAW resonator sharing an input bus bar or output bus bar with an adjacent SAW resonator in the series". It can be seen from Figure 8 that a shunt acoustic resonator 42 and as a series acoustic resonator 40 can each have a plurality of SAW resonators in series and parallel. The present application teaches how to combine SAW resonators in series (see Figures 9 to 11) with no restriction as to whether the SAW resonators are in a series or shunt acoustic resonator. As such,

it is clear that a shunt acoustic resonator can also have “a plurality of other series connected SAW resonators formed on a common substrate, each other series connected SAW resonator sharing an input bus bar or output bus bar with an adjacent other series connected SAW resonator in the other series”.

Claim 26 has also been amended to depend on claim 21. Furthermore, in claim 26 the expression “plurality of SAW resonators” has been replaced with “plurality of other series connected SAW resonators”; the expression “an adjacent SAW resonators” has been replaced with “an adjacent other series connected resonator”; and the expression “the series” has been replaced with “the other series”. Similar amendments have been made to claim 29.

Regarding claim 28, the term “filter” has been replaced with “duplexer”.

Regarding claim 31, the expression “filter” has been replaced with “low noise amplifier input stage”.

The Examiner is respectfully requested to reconsider and withdraw the formal objections to claims 7, 20 to 26, 28, 29, and 31.

Other amendments have been made to the claims.

In particular, claim 21 has been amended to replace the expression “series resonators” with “series acoustic resonators”.

Claim 22 has been amended to replace the expression “shunt resonators” with “shunt acoustic resonators”.

Claim 24 has been amended to replace the expression “shunt resonator” with “shunt acoustic resonator”.

### **Double Patenting**

In paragraph 7 of the Detailed Action, the Examiner has rejected claims 1 to 19 as being unpatentable under obviousness-type double patenting over claims 1 to 19 of United States Patent No. 6,710,677.

Claims 1, 2, 4 to 6, and 8 to 19 have been cancelled thereby rendering the Examiner's double patenting rejection against these claims moot.

Claims 3 and 7 have been made dependent on claims 20 and 21, respectively, for which no double patenting objection has been raised.

The Examiner is respectfully requested to reconsider and withdraw the double patenting objection against claims 3 and 7.

### **Claims Rejections – 35 U.S.C. 102**

In Paragraph 9 of the Detailed Action, the Examiner has rejected claims 1, 12 to 14, 16 to 18, 26, 29, and 32 under 35 U.S.C. 102(b) as being anticipated by United States Patent No. 5,864,262 (Ikada).

Claims 1, 12 to 14, 16 to 18, and 32 have been cancelled thereby rendering the Examiner's 35 U.S.C. 102(b) rejection of these claims moot.

Regarding claim 26, this claim has been amended to depend on claim 21 for which no anticipation rejection has been raised. Similarly, claim 29 has been amended to depend on claim 21 for which no anticipation rejection has been raised.

The Examiner is respectfully requested to reconsider and withdraw the 35 U.S.C. 102(b) rejection of claims 26 and 29.

In paragraph 10 of the Detailed Action, the Examiner has rejected claims 1, 2, 4 to 6, and 8 to 15 under 35 U.S.C. 102(e) as being anticipated by United States Patent No. 6,489,862 (Frank).

Claims 1, 2, 4 to 6, and 8 to 15 have been cancelled thereby rendering the Examiner's 35 U.S.C. 102(e) rejection of these claims moot.

In paragraph 11 of the Detailed Action, the Examiner has rejected claim 33 under 35 U.S.C. 102(e) as being anticipated by United States Patent No. 6,344,705 (Solal *et al.*).

Claim 33 has been cancelled thereby rendering the Examiner's 35 U.S.C. 102(e) rejection of this claim moot.

The Examiner's comments in Paragraph 12 of the Detailed Action indicating that claims 20 to 25, 27, 28, 30, and 31 would be allowable if rewritten in independent form are noted, and as discussed above claims 20 to 23, 27, and 30 have been rewritten in independent form.

To avoid excess claims fees, claim 24 has been amended to depend on claim 23 and claims 25, 28, and 31 have been amended to depend on claim 20.

In view of the foregoing, early favorable consideration of this application is earnestly solicited.

Respectfully submitted,

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JMc:MPP:acb



**Figure 4**





8/12



Figure 20A

Figure Number  
Changed  
From "21A"  
To "20A"

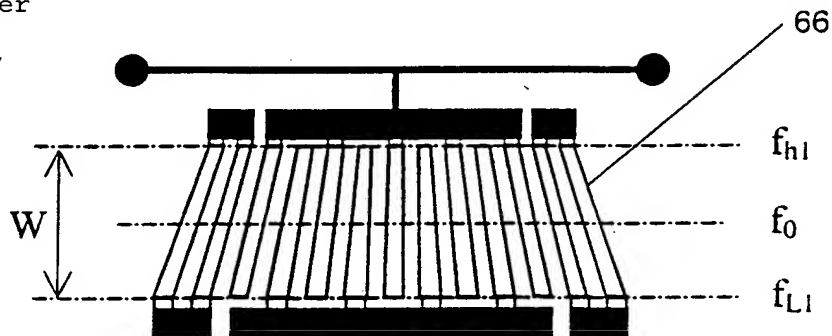


Figure 20B

Figure Number  
Changed  
From "21B"  
To "20B"

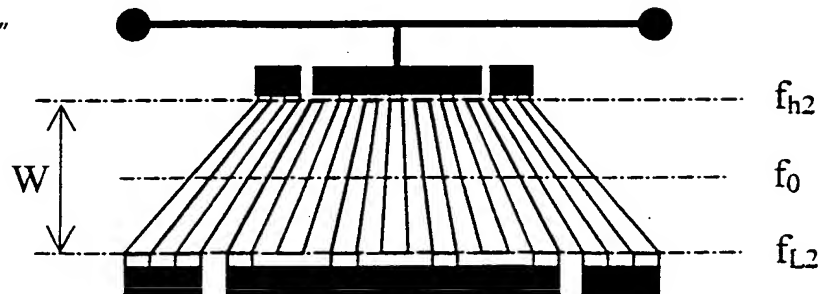


Figure 20C

Figure Number  
Changed  
From "21C"  
To "20C"

$$f_{h2} > f_{h1}; f_{L2} < f_{L1} \text{ or } f_{h2} - f_{L2} > f_{h1} - f_{L1}$$

ANNOTATED SHEET SHOWING CHANGES

9/12

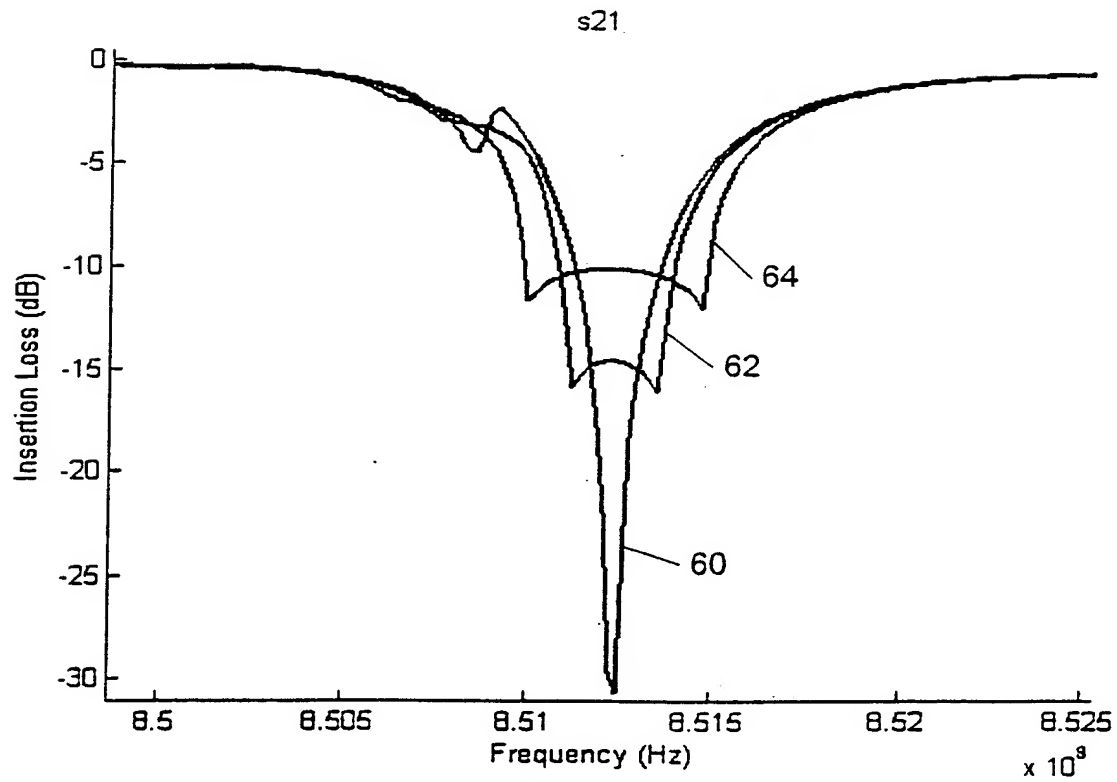


Figure 21

Figure Number  
Changed  
From "22"  
To "21"

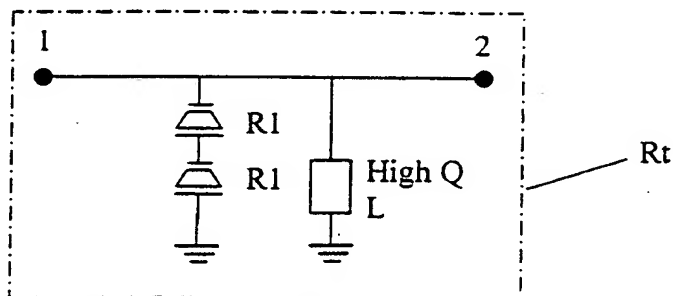


Figure 22

Figure Number  
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From "23"  
To "22"

10/12

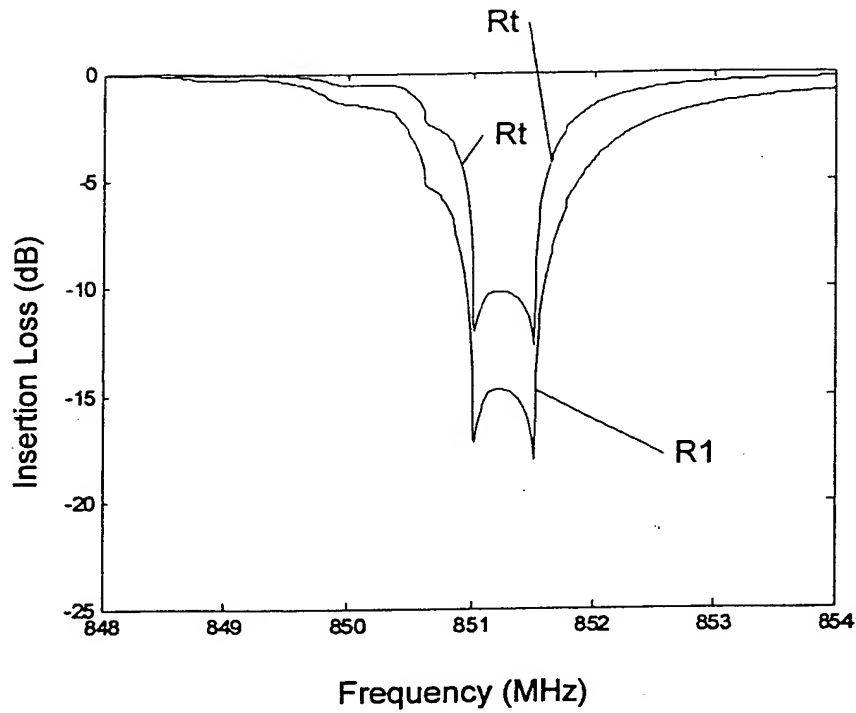


Figure 23

Figure Number  
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From "24"  
To "23"

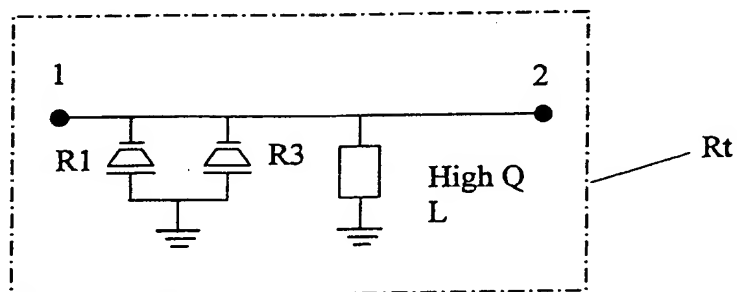


Figure 24

Figure Number  
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From "25"  
To "24"

11/12

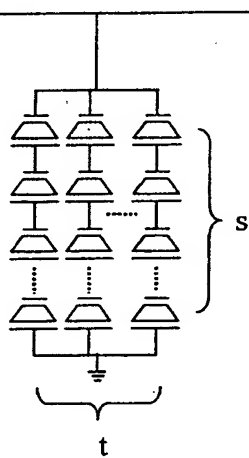
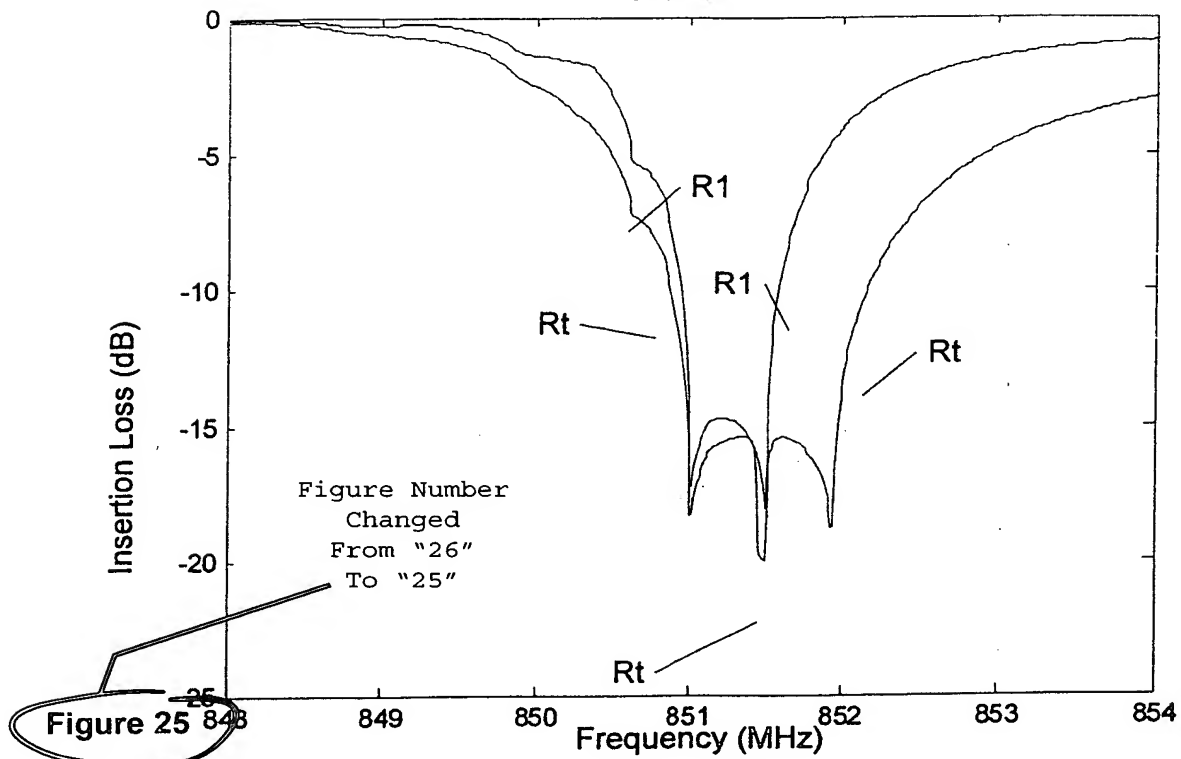
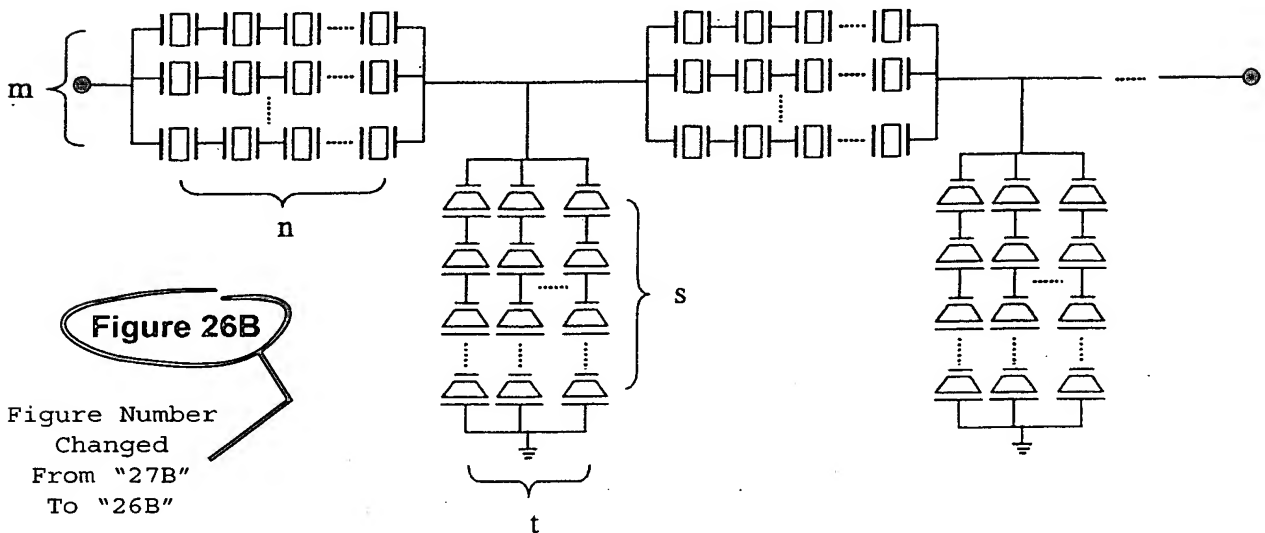
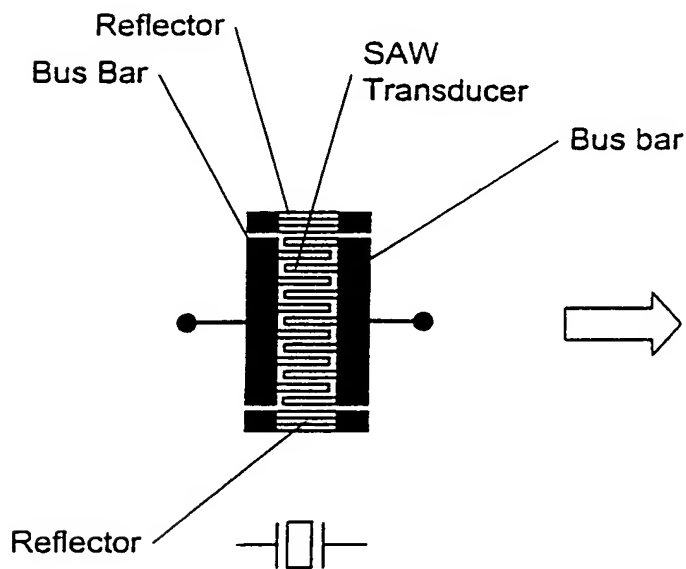
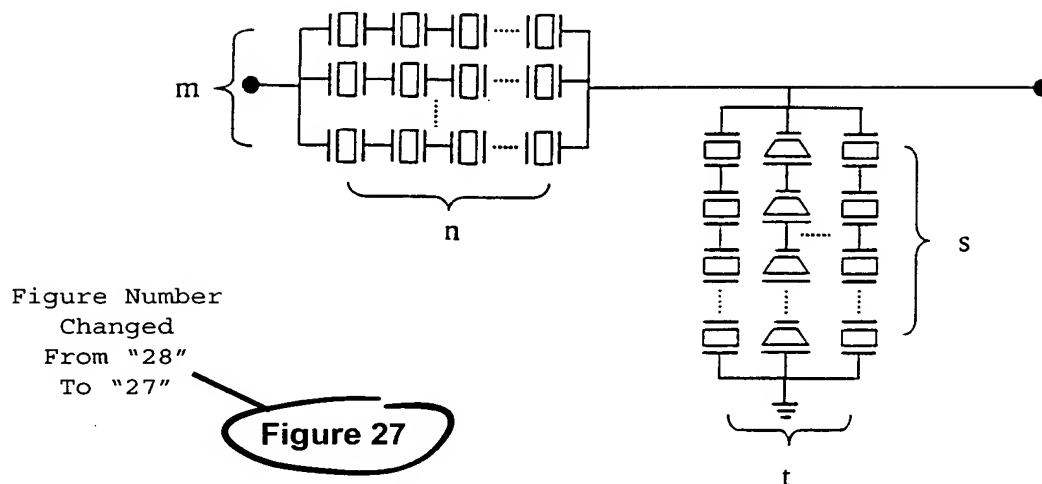


Figure Number Changed From "27A" To "26A"

Figure 26A

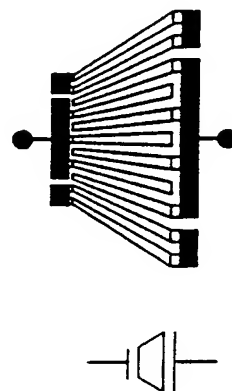


12/12



**Figure 28A**

Figure Number  
Changed  
From "29A"  
To "28A"



**Figure 28B**

Figure Number  
Changed  
From "29B"  
To "28B"